CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2015 Certified Company
NABL Accredited As Per ISO/IEC : 17025:2005 Laboratory

JAS-ANZ
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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18

14.03.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
Name of the work	: Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.02.2018	14.03.2018	8.295	535.2	23.79
2	14.02.2018	14.03.2018	8.228	519.5	23.09
3	14.02.2018	14.03.2018	8.284	506.1	22.49

Note:
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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
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Office & Laboratory : # 133, Bhuvaneshwarinagar, Dodda Basti Main Road, Bangalore - 560 056.
e-mail:civilqualityconsultants@gmail.com Ph: 080-23240644 / Mob: 8553518550

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18

21.02.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.

Agency : **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.

Name of the work : Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.02.2018	21.02.2018	8.188	340.5	15.13
2	14.02.2018	21.02.2018	8.156	336.3	14.95
3	14.02.2018	21.02.2018	8.164	348.1	15.47

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18

14.03.2018

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Agency	: **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
Name of the work	: Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	14.02.2018	14.03.2018	8.274	530.5	23.58
2	14.02.2018	14.03.2018	8.282	508.9	22.62
3	14.02.2018	14.03.2018	8.265	516.1	22.94

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No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date: 27.02.2018

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

nt : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
ıtractor : **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
ne of Work : Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
of Sample Tested : 03
of Testing : 27.02.2018
inical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.
le of Concrete : M_{20}

o.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	50.00	73.00	0.326	2274.39	1.46	0.960	35.40	18.03	19.47	18.69	23.37
	50.00	75.00	0.345	2342.76	1.50	0.960	34.80	17.72	19.14	18.38	22.97
	50.00	77.00	0.362	2394.35	1.54	0.960	33.90	17.27	18.65	17.90	22.38

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lo.: CQCE/BBMP/NMK/W.No.16/2017-18

Date: 27.02.2018

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

it	:	**Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
ractor	:	**Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
e of Work	:	Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
f Sample Tested	:	03
of Testing	:	27.02.2018
inical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
e of Concrete	:	M_{20}

.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	100.00	132.00	2.316	2233.96	1.32	0.960	133.50	17.00	18.36	17.62	22.03
	100.00	134.00	2.369	2250.97	1.34	0.960	132.80	16.91	18.26	17.53	21.91
	100.00	136.00	2.438	2282.47	1.36	0.960	135.60	17.27	18.65	17.90	22.38

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Job No.: CQCE/BBMP/NMK/W.No.16/2017-18 Date: 09.01.2018

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** RR Nagar Division, BBMP, Bangalore.
Contractor : **Sri. N.M. Krishnamurthy,** Contractor, Bangalore.
Name of Work : Improvements to road, drain and other works in Khatha Nagar in ward No.16 and Improvements to road drain and other works in Siddharata Nagar, Peenya Plantation in ward No.16, BBMP, Bangalore.
Sample Identification : 10mm,12mm, Fe 500 TMT Bars
Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test : 09.01.2018

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	10	0.62	543	552	14
2	Fe 500	12	0.89	554	563	15

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